

Technical Service Bulletin



97 Multiple warning lights illuminated; communication error DTCs

97 13 40 2034945/2 November 26, 2013. Supersedes Technical Service Bulletin Group 97 number 13-37 dated August 8, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7	2010 - 2014	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Service</i> (Added pictures)
1	8/8/2013	Initial publication

- The customer may report that two or more of the following warning lights are/were illuminated simultaneously:
 - Airbag warning light
 - TPMS warning light
 - ABS/ESP warning light
 - Engine warning light
 - Suspension warning light
 - Transmission warning light
- The warning lights may be sporadic, and may not be illuminated when the customer brings the vehicle to the workshop.
- CAN communication DTCs may be found in the following control modules:
 - Engine control module (address word 01)
 - Transmission control module (address word 02)
 - ABS control module (address word 03)
 - Adaptive air suspension control module (address word 34)
 - Corner view (front, rear) camera system control module (address word 6C)

Technical Background

There is sporadic data disruption on the CAN bus wiring behind the dashboard, between the left (T46a) and right (T46b) 46-pin CAN disconnect plugs.

For wiring and component reference, see *Elsa >> Wiring Diagrams/Component Locations >> Wiring Diagrams >> CAN disconnect plug, from June 2006.*

Production Solution

Vehicle production will have continuous quality improvement.

Service

1. Upload GFF paperless log showing communication DTCs as described in the complaint.
2. Overlay new CAN twisted pair wiring behind the dashboard, between the two 46-pin CAN disconnect plugs (T46a/1H <-> T46b/1H and T46a/1L <-> T46b/1L) (Figure 1 and Figure 2).



Tip: For easier routing of overlay, removal of parts such as the glove box, air vents, and instrument cluster will aid in secure wire routing.



Tip: Protect twisted pair with loom and abrasion resistant cloth. Beware of any moving parts behind dash panel that may chafe the wiring overlay.



Figure 1. T46a CAN disconnect plug, left dashboard.



Figure 2. T46b CAN disconnect plug, right dashboard.

3. Replace the terminals with the VAS1978B repair kit.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9709		
Damage Code:	0040		
Labor Operations:	Central wiring harness repair	9709 4152	40 TU
	Instrument panel remove + reinstall	7018 1900	370 TU
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on diagnostic protocol (Max 20 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2034945/2		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Required Parts and Tools

Part Number	Part Description	Quantity
000979987	Data bus line (CAN bus)	1
000979009E	Terminal pair with wiring	2
000979940	Butt connector	8
000979950	Cloth tape	1
Misc. Shop Supplies	Wiring protection hardware	As needed

Tool	Tool Description	Quantity
VAS1978B	Wiring harness repair set	1

Additional Information

- The following repair procedure may be necessary to complete this procedure:
 - *Repair Manual >> Electrical System >> Electrical Equipment General Information >> 97 Wiring >> General Information >> Wiring Harness and Connectors, Repairing >> CAN Bus Wire, Repairing*
- See Self Study Program, *SSP 971003*, for electrical repair procedures and tips.

All part and service references provided in this TSB (2034945) are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.